# How to use ULOG485 as monitored RS485 bridge?

1. ULOG485 converter can support four serial COM ports via USB connection to monitor your RS232 to ground isolated RS422/RS485 interface converter function.

2. If you paid the similar cost, monitored function is better.

3. ULOG485 can support two sets RS232 to ground isolated RS422/RS485 interface converter. It is similar as other manufacturer's product.
   But ULOG485 box support USB powered. You don't need to use external power adapter. ULOG485 box support monitored function via USB.
   You can check each serial port data received in host. So it is easy for you to debug.

4. When we connect NULL MODEM cable between two RS232 port of ULOG485 box. Then ULOG485 box will be RS485 bridge between two RS485 segment. The data received from RS485 network(port C) will be converted to send in RS232(port A). So such data will be received in the other side of RS232(port B). Then such data will be converted to transmit in RS485 network(port D).
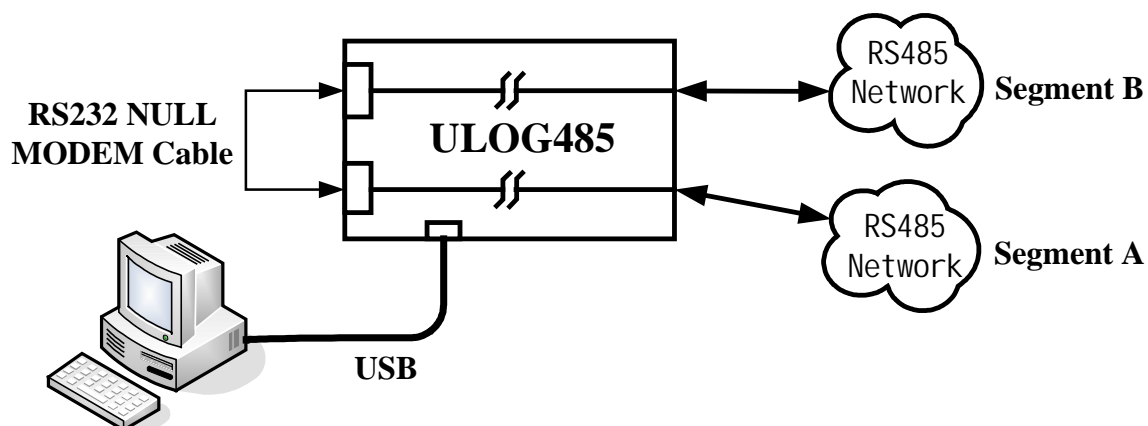
5. When we use terminal emulator in each serial port of ULOG485. Then we can show the data received in each serial port. So we can check the transmission condition in both RS485 segment.

6. In traditional RS485 bridge structure we need to use two RS485 to RS232 conveters in both RS485 segment. Then we can use two COM port in PC to monitor the data transmission condition in both RS485 network. So you will add one extra RS485 loading in each RS485 segment for monitor purpose. hen we use ULOG485 box as bridge, the monitor feature do not change the application environment.

7. Because ULOG485 box can use four serial ports to monitor the data flow direction in both RS485 segment. When RS485 host to send packet from one segment and can not receive response packet from RS485 equipment in another segment. Then we can confirm RS485 bridge do receive RS485 host packet or not. And RS485 equipment do send response packet or not. So it is very useful for you to find the possible problem in RS485 communication.